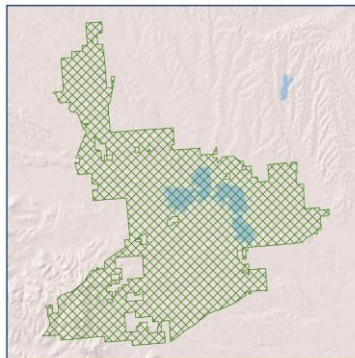




# Region 4 Inventory and Monitoring Network

## Mobile Acoustical Bat Monitoring Annual Summary Report 2012

### SAM D. HAMILTON NOXUBEE NATIONAL WILDLIFE REFUGE



The Region 4 Inventory and Monitoring Network coordinated acoustical bat monitoring on 39 National Wildlife Refuges and 3 Ecological Services field offices in Regions 2, 3, and 4 in 2012. Surveys will establish baseline inventories of bats at each station and contribute to a landscape-level understanding of bat population trends and habitat associations. Bat call data were collected using Anabat SD2 detectors along 8-30 mile transects following the procedures outlined in the Mobile Bat Acoustical Survey Protocol (USFWS 2012).

This report summarizes bat calls collected along transects at your station in 2012. Calls were classified using EchoClass (v1.1) software, but classification of calls to species is not reported at this time due to ongoing software assessment and validation. Calls were geo-referenced and spatially projected for each survey period to identify relative bat use along transects. We will provide a revised annual summary report, transect shapefiles, and spatially referenced data output files once robust classifications to species are available. For surveys in which GPS data were not collected, a summary of the calls is presented without spatial reference.

All submitted call data and survey metadata have been archived and are available on the Mobile Acoustical Bat Monitoring SharePoint site (<https://fishnet.fws.doi.net/regions/4/nwrs/IM/bats>). Bat call files, GPS data, and survey metadata sheets were reviewed for quality assurance prior to generation of this report. Some submitted data were necessarily excluded due to identified errors in collection processes. All acoustical bat data will be summarized in a comprehensive project annual report following station-level reports.

# SAM D. HAMILTON NOXUBEE NATIONAL WILDLIFE REFUG

**Route Name: NxbNWR**

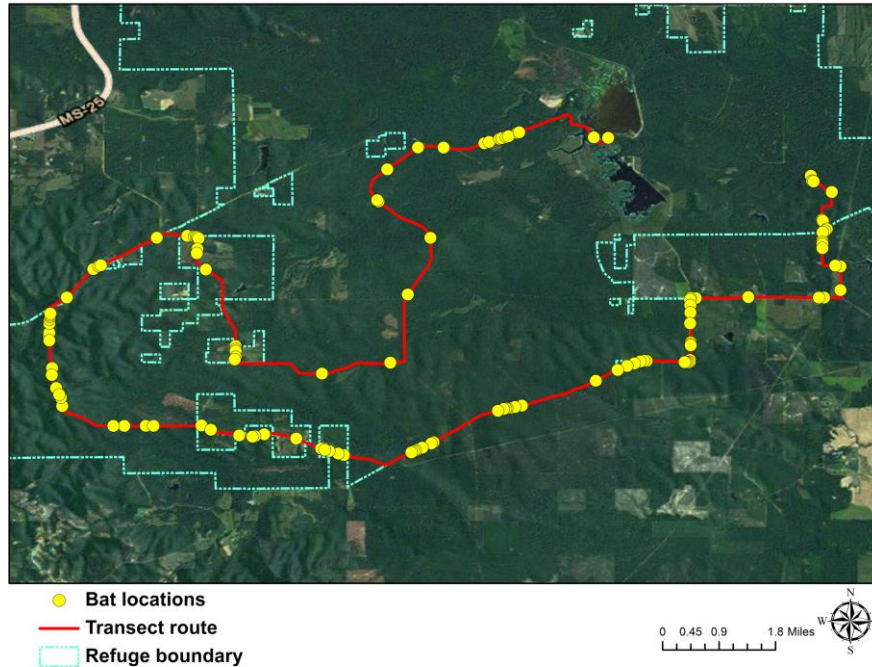
**Survey Date: 6/3/2012**

**Survey route completed?** ☒

**Number of bat calls recorded:** 131

**GPS data collected?** ☒

**Total length of transect (miles):** 30.47



<b>Observer 1:</b> Janet	Ertel
<b>Observer 2:</b>	
<b>Start Time:</b> 8:30:00 PM	<b>End Time:</b> 10:08:00 PM
<b>Start Temp:</b> 87	<b>End Temp:</b> 83
<b>Start Wind:</b> 1	<b>End Wind:</b> 0
<b>Start Cloud:</b> 0	<b>End Cloud:</b> 0
<b>Start Moon Visible?</b> <input checked="" type="checkbox"/>	<b>End Moon Visible?</b> <input checked="" type="checkbox"/>
<b>Moon Phase:</b>	Full

## Survey Notes:

QA/QC notes: GPS data were not erased between transect nights, GPS data were manually separated across transect nights during QA/QC check.

# SAM D. HAMILTON NOXUBEE NATIONAL WILDLIFE REFUG

## Route Name: NxbNWR

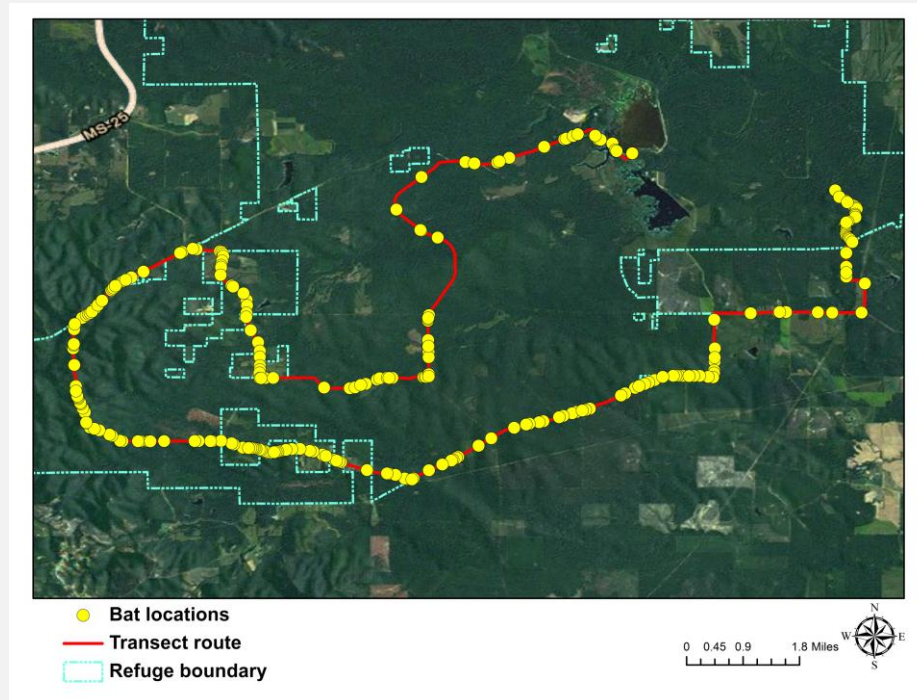
Survey Date: 6/23/2012

Survey route completed? ☒

Number of bat calls recorded: 260

GPS data collected? ☒

Total length of transect (miles): 30.47



Observer 1:	Janet	Ertel
Observer 2:	Steve	Reagan
Start Time:	8:37:00 PM	End Time: 10:09:00 PM
Start Temp:	81	End Temp: 80
Start Wind:	1	End Wind: 1
Start Cloud:	0	End Cloud: 0
Start Moon Visible?	<input checked="" type="checkbox"/>	End Moon Visible? <input checked="" type="checkbox"/>
Moon Phase:	1/4	

### Survey Notes:

QA/QC notes: GPS data were not erased between transect nights, GPS data were manually separated across transect nights during QA/QC check.

# SAM D. HAMILTON NOXUBEE NATIONAL WILDLIFE REFUG

## Route Name: NxbNWR

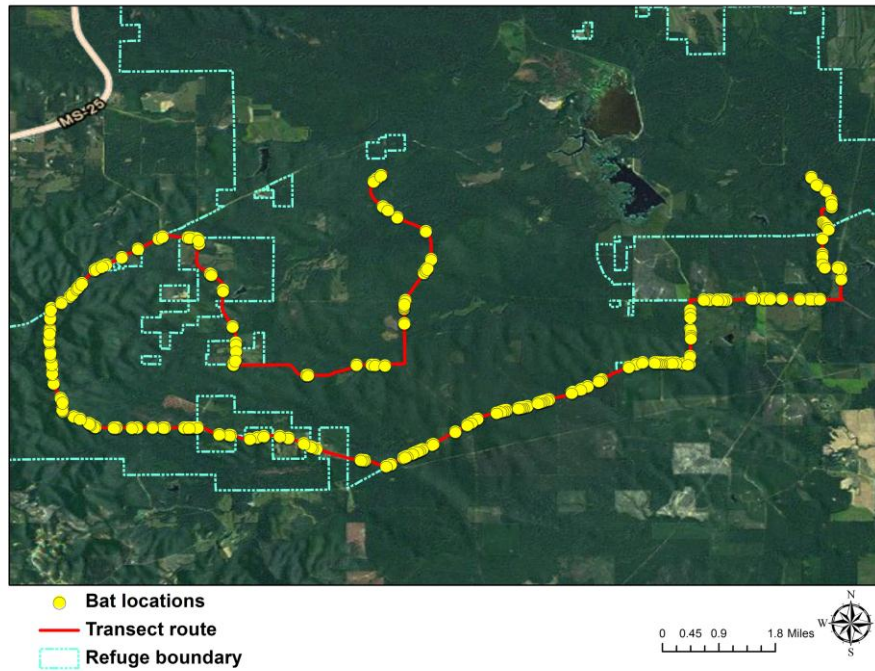
Survey Date: 7/14/2012

Survey route completed? ☒

Number of bat calls recorded: 245

GPS data collected? ☒

Total length of transect (miles): 26.87



<b>Observer 1:</b> Janet	Ertel
<b>Observer 2:</b> Kristine	Evans
<b>Start Time:</b> 8:37:00 PM	<b>End Time:</b> 10:15:00 PM
<b>Start Temp:</b> 77	<b>End Temp:</b> 73
<b>Start Wind:</b> 0	<b>End Wind:</b> 1
<b>Start Cloud:</b> 100	<b>End Cloud:</b> 0
<b>Start Moon Visible?</b> <input type="checkbox"/>	<b>End Moon Visible?</b> <input checked="" type="checkbox"/>
<b>Moon Phase:</b>	

### Survey Notes:

Collector notes: Batteries died at 21:59, but it took less than 2 minutes to change and get back on the survey. QA/QC notes: Battery failure resulted in GPS failure from 22:02 on, there were 38 other bat detections after 22:02 to 22:13 when transect was completed. GPS data was manually separated across transect nights.